

FIGURE 4

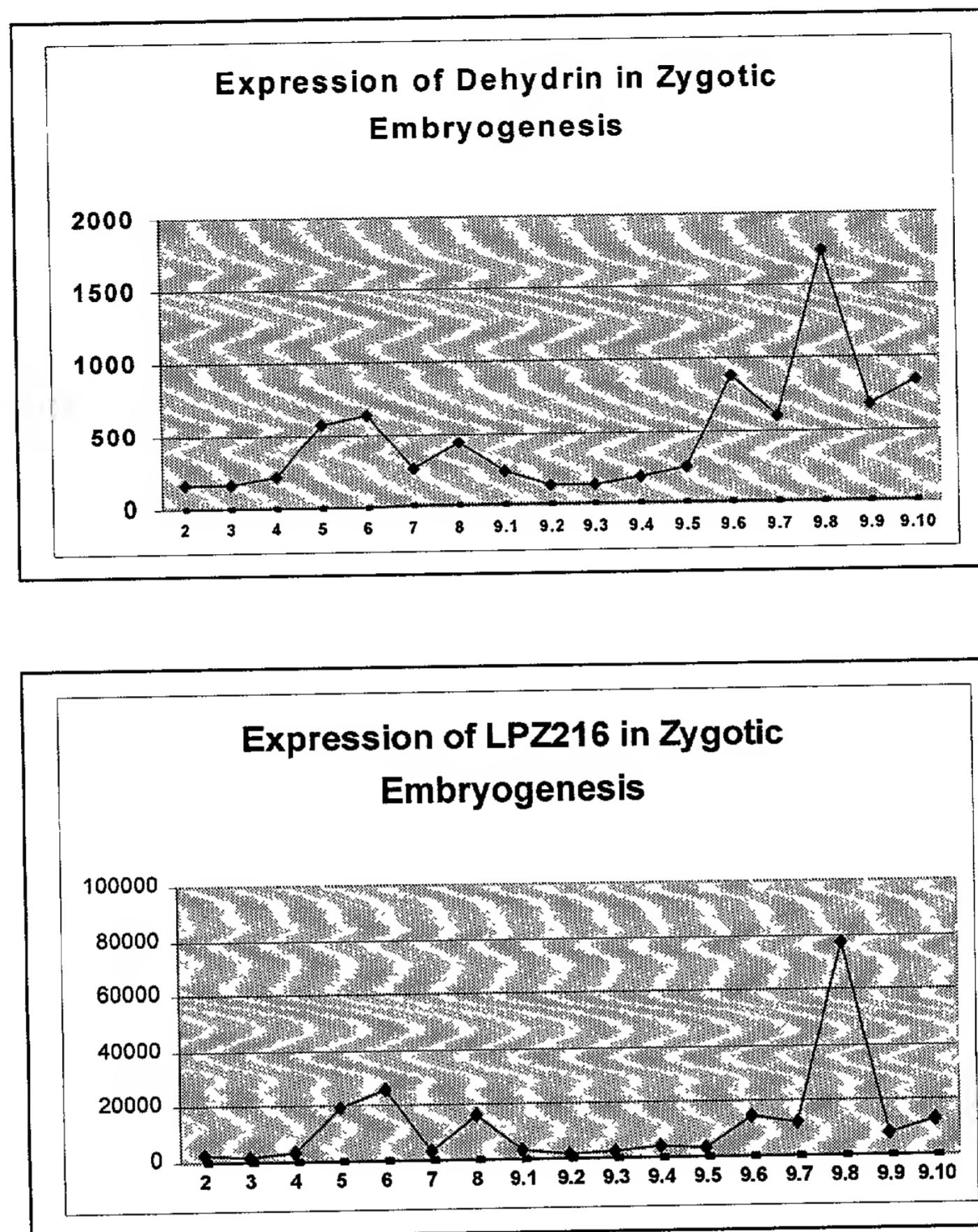


Figure 4. Graphical representation of hybridization of 'dehydrin' and LPZ-216 cDNA probes to total RNA isolated from zygotic embryos of loblolly pine. Five micrograms of RNA was loaded on a slot blot and hybridized with one of the cDNA probes. The hybridization signals were measured by a Fuji BAS-1000 Imaging system and signals were quantified using the associated software. The membrane was then stripped of probe and re-probed with labeled 26S rDNA to determine the equivalence of loading. These signals from this hybridization were captured and used to normalize the signals from dehydrin and LPZ-216.

FIGURE 5

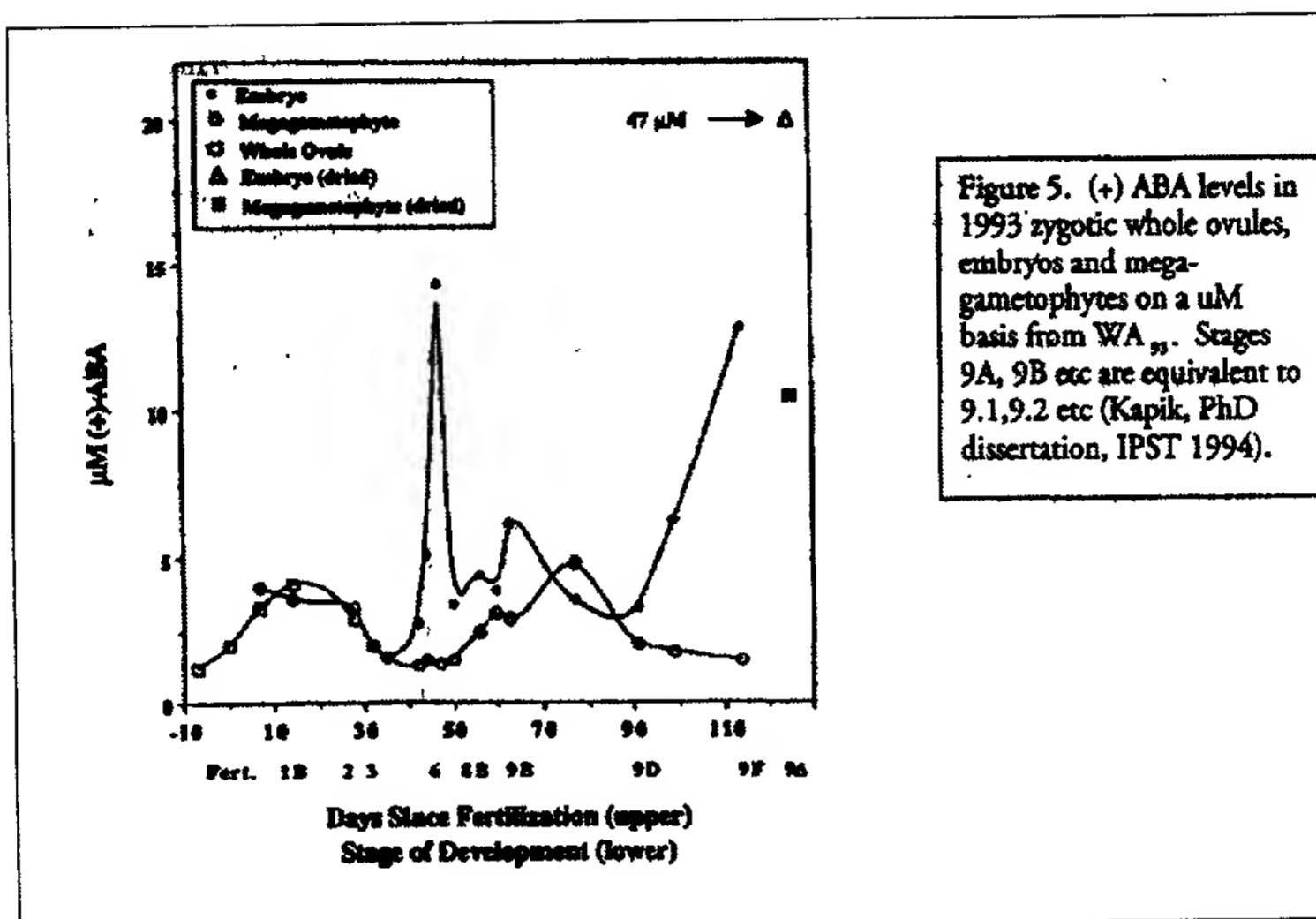


Figure 5. Determination of ABA concentration of loblolly pine embryos as described more fully by Kapik et al., *Tree Physiology* 15:485-490 (1995)

FIGURE 6

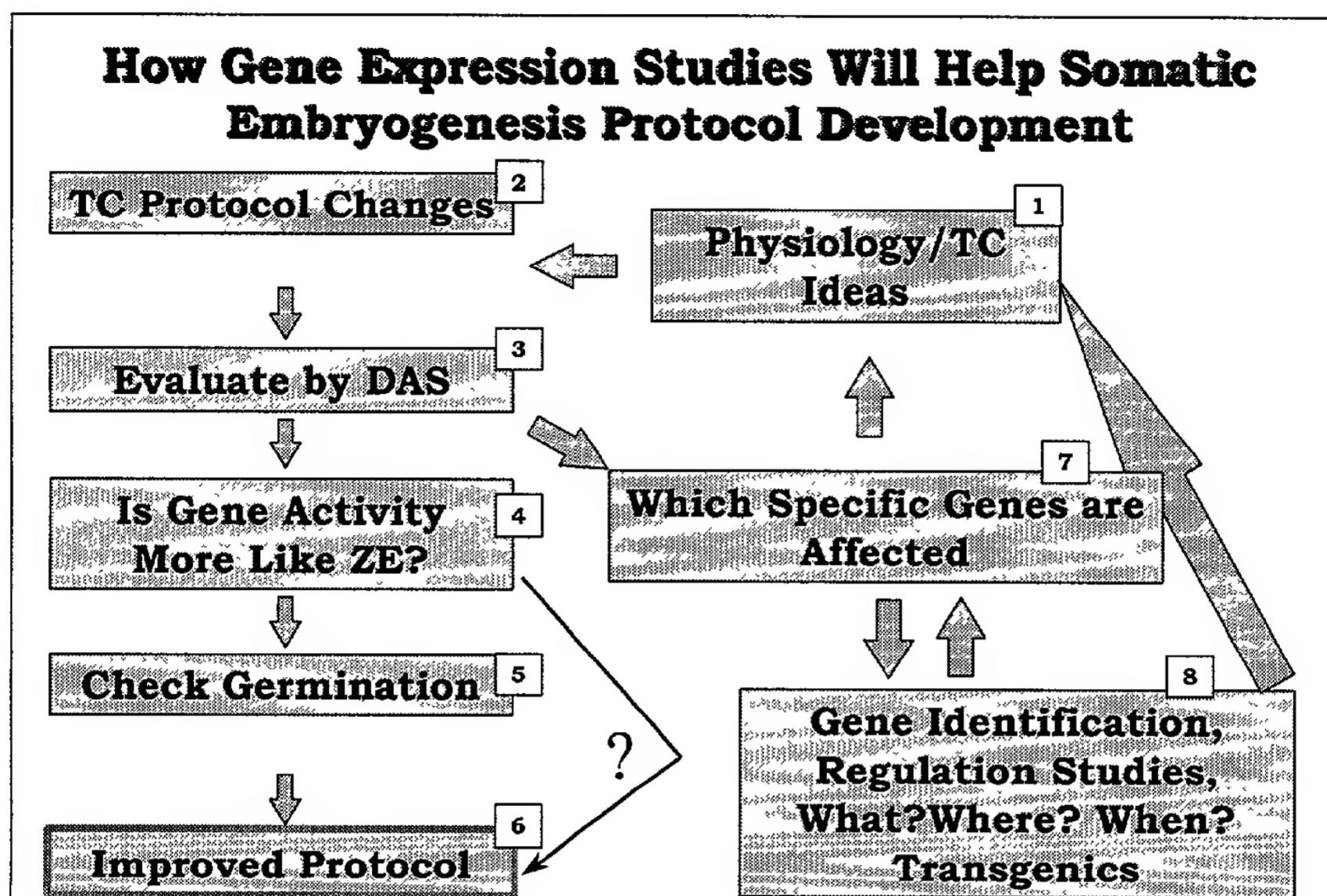


Figure 6. Scheme showing use of gene studies to improve somatic embryogenesis.
TC = Tissue Culture, DAS = DNA Array Southern (an expression monitoring technique), ZE = Zygotic (Natural) Embryo